

Certificate of Test

QUOTE No.: NC8646

REPORT No.: FNC12996A

COMBUSTIBILITY TEST FOR MATERIALS IN ACCORDANCE WITH AS 1530.1-1994

TRADE NAME: Alteria
SPONSOR: Trumark Group Pty Ltd
50-52 Koornang Road
SCORESBY VIC 3179
AUSTRALIA

DESCRIPTION OF TEST SAMPLE: The sponsor described the tested specimen as an uncoated 6060 aluminium alloy representative of the aluminium component used in the Alteria aluminium panel.

Nominal thickness: 2 mm (loose laid to form 50 mm)
Nominal density: 2710 kg/m³ (measured)
Colour: silver

The test result only relates to the specimen tested and described in this report. CSIRO was not involved in the selection of the materials.

TEST PROCEDURE: Five (5) samples were tested in accordance with Australian Standard 1530 Methods for fire tests on building materials, components and structures, Part 1- 1994: Combustibility Test for Materials.

An alternative suitable insulating material was used to fill the annular space between the furnace tubes, as specified in Clause 4.2 of ISO 1182:2010.

RESULTS: The following calculated results were obtained, refer also to Summary of measurements:


Arithmetic mean	$= \frac{\Sigma \text{results}}{5}$
Mean furnace thermocouple temperature rise (°C)	5.72
Mean specimen centre thermocouple temperature rise (°C)	7.40
Mean specimen surface thermocouple temperature rise (°C)	8.31
Mean duration of sustained flaming (s)	0
Mean mass loss (%)	0.03

DESIGNATION: The material is NOT deemed combustible according to the test criteria specified in Clause 3.4 of AS 1530.1-1994.

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

DATE OF TEST: 31 October 2022

Issued on the 16th day of October 2023 without alterations or additions. This Certificate of Test supersedes Certificate of Test issued on the 15th day of November 2022.



Faustin Molina
Testing Officer



Stephen Smith
Team Leader, Reaction to Fire & Façade Fire Laboratory

End of Report

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NATA Accredited Laboratory
Number: 165
Corporate Site No 3625

Accredited for compliance with ISO/IEC 17025 - Testing.

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Certificate of Test

QUOTE No.: NE8647

REPORT No.: FNE13007

AS/NZS 1530.3:1999 SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION, HEAT RELEASE AND SMOKE RELEASE

TRADE NAME: Alteria
SPONSOR: Trumark Group Pty Ltd
50-52 Koornang Road
SCORESBY VIC 3179
AUSTRALIA

DESCRIPTION OF SAMPLE:

The sponsor described the tested specimen as an extruded batten with timber pattern and interlocking joints comprised of a 6060 T5 aluminium alloy and a polyester (PE) powder coating with a sublimated image. The sublimated image was applied to the powder coat using heat and pressure on one face. The batten was a nominal size of 125-mm width x 16-mm depth x 450-mm length juxtaposed together using two 35-mm x 600-mm long top hats fixed with Tek screws at 250-mm centres onto the unexposed face.

Nominal thickness of coating: 0.1 mm
Nominal thickness of aluminium sheet: 2 mm
Nominal total thickness: 2.1 mm
Nominal total density: 2690 kg/m³
Colour: medium brown (face) / silver (back)

The test result only relates to the specimen tested and described in this report. CSIRO was not involved in the selection of the materials. The coloured face of the specimen was exposed to the radiant heat source.

TEST PROCEDURE: Nine (9) samples were tested in accordance with AS/NZS 1530, Method for fire tests on building components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release, 1999. For the test, each sample was clamped to the specimen holder in four places.

OBSERVATIONS: Due to variable behaviour, nine (9) specimens were tested, as required by Clause 2.8 of AS/NZS 1530.3:1999. Of the nine (9) specimens tested only one (1) ignited in the prescribed period.

RESULTS: The following means and standard errors were obtained:

Parameter	Mean	Standard Error
Ignition Time (min)	10.9	n/a
Flame Spread Time (s)	n/a	n/a
Heat Release Integral (kJ/m ²)	1.2	1.2
Smoke Release (log ₁₀ D)	-1.819	0.081

For regulatory purposes these figures correspond to the following indices:

Ignitability Index	Spread of Flame Index	Heat Evolved Index	Smoke Developed Index
(0-20)	(0-10)	(0-10)	(0-10)
0	0	0	2

The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

DATE OF TEST: 7 December 2022

Issued on the 22nd day of December 2022 without alterations or additions.



Faustin Molina
Testing Officer



Stephen Smith
Team Leader, Reaction to Fire & Façade Fire Laboratory

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